

## **ABSTRACT OF THE DISCLOSURE**

A method and apparatus for encrypting information. In one embodiment, a method for encrypting information includes obtaining a value  $A$  from an array having a plurality of values and determining a value  $B$  based on the value  $A$  in a first pipeline stage. In a second pipeline stage, a value  $V$  may be determined from the value  $A$  and the value  $B$ . The value  $V$  may then be exclusive ORed (XORed) with a data value that forms a portion of the information being encrypted. A first logic unit may include the first pipeline stage, while a second logic unit may include the second pipeline stage. The array may be stored in a plurality of flip-flops in one embodiment, or may be stored in one or more register files in a second embodiment. The method and apparatus may be used for decrypting information as well.